

SSOW – Working in a cold store.

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Scope of Activity:	This safe system of work covers Forkway engineers working in a cold store.
Applicable Risk Assessment:	RA 015 – Working in a cold store.
Hazards Expected:	As identified in the applicable risk assessment RA 015.
Mandatory PPE:	Overalls Safety boots Nitrile gloves Safety glasses Hard hat Hearing protection (where required) High visibility clothing – vest as a minimum
Additional PPE (as required):	See table below.
Resources:	Competent engineer (s) Barrier Tape (as required)

Manning:

Field service engineer(s) reporting to an Engineering Manager who is responsible for providing information, instruction, supervision and ensuring that the engineers are suitably trained. In turn the Engineering Manager reports to the Regional Business Manager.

Engineers will take full responsibility for:

- Customer contact, authority to carry out the task, signing and implementing customer work permits and following customer site rules;
- Establishing with the customer and working in a safe area and environment;
- Ensuring that a risk assessment is in place is suitable and sufficiently covers all hazards;
- Familiarising themselves with the equipment, operator and maintenance manuals;
- Ensuring all maintenance and repairs are completed in accordance with the manufacturer's manual.

Safe Working Method:

- Upon arrival on site, you must sign in where applicable and make contact with the designated site contact. You must ensure you have completed any necessary inductions and any permits to work or other documentation required by customer have been completed;
- Agree with the site contact a designated safe working area in which to carry out required maintenance;
- Lone working must not be undertaken in a cold store.
- Avoid working in a cold store where possible;
- Where work in the cold store cannot be avoided:

SSOW – Working in a cold store.

- Engineers must familiarise themselves with cold store emergency exit location, route of escape and escape procedure;
 - The correct PPE must be worn at all times including appropriate footwear, with sufficient grip;
 - A cordon must be made around the working area to prevent unauthorised access;
 - Ensure cordoned off area if visible to site traffic. Avoid working at blind corners, etc.
- Agree with the site contact a designated safe working area in which to carry out all operations and familiarise yourself with this area ensuring you have considered any specific hazards present or that may arise:
 - Ensure there is no slip or trip hazards in the work area or immediate vicinity;
 - Continue to dynamically assess the situation throughout the task;
 - If you feel the area is not sufficient, inform the customer and if another more suitable area cannot be agreed contact your line manager;
 - If access equipment is required to be used, special consideration will have to be given as to the most appropriate method. Consideration must be given to the possibility of a slippery surface (e.g. if using ladders) or the effects of the cold temperature on powered access equipment (e.g. MEWPS possible reduced capabilities). Ensure to follow manufacturers guidance on equipment's limitations.
 - If jacking and blocking is required, special consideration will have to be given as to the most appropriate method. Consideration must be given to the possibility of a slippery surface. Machine must be isolated before work begins. Keys must be removed and remain in the possession of the engineer throughout task. Support machine or its components with blocks or axle stands, etc. before working below them. Follow manufacturer's guidance on suitable means of supporting. Follow manufacturer's manual for suitable jacking, blocking or supporting points and methods. Ensure correct principles of jacking and blocking are followed. Equipment must never be left elevated on jack alone.
 - No work activity should be undertaken in a cold store with a temperature of -40 degrees or below.
 - Ensure adequate breaks/ recovery periods are taken in a warm dry area, see table below;
 - Any wet clothing must be changed;
 - Use Service Vehicle heating to get warm;
 - Drink hot drinks;
 - If any symptoms of ill health seek medical attention immediately;

Exposure times and recovery periods:

Temperature	Maximum continuous exposure time	Recovery periods following exposure		
		<60 Mins	<90 Mins	>90 Mins
5°C to 0°C	N/A	N/A	N/A	N/A
0°C to -5°C	N/A	10 Mins recovery	15 Mins recovery	20 Mins recovery
-5°C to -10°C	90 minutes	10 Mins recovery	15 Mins recovery	N/A
-10°C to -20°C	90 minutes	10 Mins recovery	15 Mins recovery	N/A

SSOW – Working in a cold store.

Below -20°	60 minutes	60 Mins recovery	N/A	N/A
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Additional PPE requirements:

Temperature	Exposure Time			
	<30 Mins	<60 Mins	<90 Mins	>90 Mins
5°C to 0°C	Normal Forkway workwear and PPE.	Normal Forkway workwear and PPE.	Normal Forkway workwear and PPE.	Normal Forkway workwear and PPE.
0°C to -5°C	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better.
-5°C to -10°C	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011
-10°C to -20°C	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011
Below -20°C	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to EN ISO 20345:2011 	<ul style="list-style-type: none"> Thermal hat /balaclava Gloves approved to BS EN 511:2006 or better. Cold store jacket and salopettes to BS EN 342:2017 Thermal boots to BS EN ISO 20345:2011